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BULLETIN

OF THE

AMERICAN PHYSICAL SOCIETY

Vol. 5, No. 5, Part 2, November 15, 1930

CONSTITUTION AND BY-LAWS
AND
MEMBERSHIP LIST
OCTOBER, 1930

Published by the American Physical Society
Six issues each year

Constitution and By-Laws

and

Membership List

of the

American Physical Society

October, 1930

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BULLETIN

of the

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The American Physical Society

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†E. P. Lewis 1926
Raymond T. Birge 1927–1929
Paul D. Foote, G. W. Stewart 1927–1930
L. J. Briggs, H. L. Bronson 1928–1931
H. E. Ives, A. L. Loomis 1929–1932
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Leigh Page 1923–1925

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W. G. Cady 1924–1926

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C. J. Davisson
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F. W. Loomis
K. F. Herzfeld
A. W. Hull 1930–1932

CONSTITUTION

ARTICLE I—Name

This Society shall be called the American Physical Society.

ARTICLE II—Object

The object of the Society shall be the advancement and diffusion of the knowledge of physics.

ARTICLE III—Fellowship and Membership

1. The membership of the Society shall consist of fellows, members, and honorary members.

2. There shall be elected to fellowship only such persons as have contributed to the advancement of physics by independent, original research, or who have rendered some other special service to the cause of the science which is considered equivalent to such investigations. The fulfilment of these qualifications shall be determined by an examination of the published works of the candidate.

3. There may be elected to membership persons of any of the following classes: (a) graduate students specializing in physics; (b) teachers of physics in colleges and secondary schools who have not yet completed investigations which warrant election to fellowship; (c) other physicists whose work of investigation is not sufficient for qualifications as fellows; (d) persons engaged in lines of work related to physics, such as mathematics, astronomy, etc.; (e) persons who are not professionally engaged either in physics or related lines, but whose interest and activity in the science would make them desirable members. Members have all the privileges of fellows except that they may not vote or hold office.

4. Honorary members shall be persons of acknowledged preëminence in the science of physics. American physicists shall not be eligible to honorary membership. Honorary members shall have all the privileges of fellows, except that they may not vote or hold office; they shall be exempt from all dues and assessments.

ARTICLE IV—Election of Fellows and Members

1. For the election of a new fellow or member of the Society, or for the transfer of a member to fellowship, a nomination in due form signed by two fellows or members of the Society shall be presented at a meeting of the Council and at a meeting of the Council, occurring at least two weeks later, the person named in such nomination shall receive the favorable ballots of a majority of the Councilors present. The Council may, however, at its discretion make election to membership at the same meeting at which the nomination is presented.

2. A nomination for honorary membership shall be made by vote of the Council at a regular meeting of the Society, or by a petition in due form signed by not less than five members of the Council and submitted to the Secretary. A nomination so presented shall be submitted by the Secretary to letter ballot of all the members of the Council. For election to honorary membership the nominee shall receive the favorable votes of not less than three-fourths of the entire membership of the Council.

ARTICLE V—Officers

The officers of the Society shall be a President, a Vice-President, a Secretary, a Treasurer, and a Managing Editor.

ARTICLE VI—Council and Board of Editors

1. The President, Vice-President, Secretary, Treasurer, and Managing Editor, and all those who have at any time held the office of President of the Society, together with eight other members to be elected in the manner specified in Art. VII, shall constitute a Council, which shall have general charge of the affairs of the Society.

2. A board of editors, consisting of the Managing Editor and nine other members to be elected in the manner specified in Art. VII, shall have charge, under the direction of the Council, of the publication of a journal of experimental and theoretical physics, to be entitled *The Physical Review*. The functions of the board shall include both the editorial and business management of the journal.

ARTICLE VII—Election of Officers

1. The officers of the Society and the elected members of the Council and of the Board of Editors shall be elected by ballot at the Annual Meeting of each year. At least eight weeks before the Annual Meeting the Secretary shall send to each fellow of the Society a request for nominations, specifying the offices which are to be filled. The name of every candidate nominated by not less than twenty fellows shall be printed on the official ballot. The ballot shall also contain the name of a candidate proposed by the Council for each office and blank spaces in which the voter may substitute other names. A copy of the official ballot shall be sent to each fellow not less than four weeks before the Annual Meeting. Such a ballot, if marked by a qualified voter to indicate his choice, and if returned to the Secretary in a sealed envelope bearing the name of the voter, shall be counted at the Annual Meeting. A ballot properly marked and endorsed by a qualified voter may be cast in person at the Annual Meeting. A majority of all votes cast in person or by letter ballot shall be necessary for election. In case of failure to secure a majority for any office, the fellows present at the Annual Meeting shall choose by ballot one of the two candidates having the highest number of votes for that office.

2. The term of office shall be one year for the President, Vice-President, Secretary, and Treasurer, four years for the elected members of the Council, and three years for the Managing Editor and the other members of the Board of Editors. Each official shall hold office until his successor is elected and has qualified.

3. No fellow shall be elected as President more than two years in succession. No elected member of the Council and no member of the Board of Editors other than the Managing Editor, having completed a full term as specified above, shall be re-elected until after the intervention of at least one year.

4. If an office for any reason becomes vacant, the vacancy shall be filled by the Council for the remainder of the term. If any elected member of the Council or of the Board of Editors vacate his position more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society, by ballot, at the Annual Meeting.

ARTICLE VIII—Amendments

No part of this Constitution shall be amended or annulled except by a vote taken at an Annual Meeting of the Society in the following manner: Any proposed amendment to this Constitution, accompanied by a proper ballot form, shall be submitted to all fellows of the Society at least four weeks in advance of the meeting at which such amendment is to be considered. Every ballot marked by a qualified voter to indicate his vote and returned to the Secretary in a sealed envelope bearing the name of the voter shall be counted at the meeting. A ballot properly marked and endorsed by a

qualified voter may be cast in person at the Annual Meeting. The adoption of the proposed amendment shall require the affirmative votes of not less than two-thirds of the fellows voting in person at the meeting together with those voting by letter ballot.

BY-LAWS

ARTICLE I—Dues

1. The annual dues of fellows shall be fourteen dollars and of members ten dollars, payable on the 1st of January.

2. The membership of each new fellow or member shall date from the January 1st nearest to the time of his election and he shall be entitled to receive periodicals from that date, as provided in Article VI.

3. If the dues of any fellow or member remain unpaid beyond a reasonable time, the Council, after due notice, shall remove his name from the membership list.

4. The Council shall, however, have power, by a special vote in each case, to honor a member or fellow by placing him on a retired list with no dues, provided such member or fellow is not less than sixty-five years of age, and has retired from active service in his professorial or other corresponding position. A member or fellow going on the retired list will waive the right to receive the journals from the Society.

ARTICLE II—Meetings

At least four regular meetings shall be held each year, at such times and places as shall be ordered by the Council. One of these, to be called the Annual Meeting, shall be held on a day to be determined by the Council, between the 26th and 31st of December, inclusive. Notices of the time and place of each meeting shall be sent by the Secretary to all fellows and members of the Society.

ARTICLE III—Meetings of the Council

1. There shall be a meeting of the Council at the time and place of each regular meeting of the Society.

2. The president shall convoke the Council in special meeting whenever the affairs of the Society require it.

3. A request in writing from five members of the Council shall render the convocation of the Council obligatory.

ARTICLE IV—Presidential Address

It shall be the duty of the President to deliver an address before the Society at the Annual Meeting next succeeding his first election as President of the Society.

ARTICLE V—Papers

1. Only those titles of papers shall be listed on the preliminary program of a meeting of the Society for which abstracts for publication are in the hands of the Secretary.

2. A separate program shall be announced for each session, due allowance being made for discussion. Each session shall begin with the papers announced for that session, even when the program of the preceding session has not been completed.

3. When two or more papers are offered by the same fellow or member, one only

of these will be assigned a place on the regular program, while the others will be placed in a supplementary program, to be called for if time permits.

4. Papers received after the program has been printed will be placed in the supplementary program.

5. Except by special vote of the Society, the maximum allowance of time for the presentation of a paper shall be ten minutes. The presiding officer shall enforce this rule.

ARTICLE VI—Journals

1. All fellows and members of the Society, in full standing, shall receive *The Physical Review,* published monthly by the Society; they shall also receive, without extra charge, *Science Abstracts, Section A—Physics.* Any fellow or member may obtain *Science Abstracts, Section B—Electrical Engineering* at a reduced price, by arrangement with the Treasurer. (See also note below).

2. *The Physical Review* shall not be sent to newly elected fellows or members until the Managing Editor shall have received notice from the Treasurer that the dues have been paid.

ARTICLE VII—Committees

The terms of office of all committees appointed by vote of the Council or of the Society, shall end on the January 1st next following the appointment, except upon special action of the Council continuing a committee.

ARTICLE VIII—Amendments

These By-Laws may be amended or suspended only upon recommendation of the Council, and by a two-thirds vote of the fellows present at a meeting of the Society.

(Note: *Reviews of Modern Physics,* a quarterly journal conducted by the Society, is also available at reduced subscription price to members.)

SUMMARY OF RESULTS FROM QUESTIONNAIRE MAILED JUNE 30, 1930

Total Membership of Society covered by questionnaire	2386
Total number of cards returned	1776
	Pct.
*Percentage indicating educational or individual professional connection	66.5
Percentage indicating industrial or business connection	25.1
Percentage indicating membership in	
One other Society	34.8
Two other Societies	14.3
Three other Societies	6.9
Four other Societies	2.7
Five or more other Societies	1.5
Percentage indicating membership in Societies printed on the card	
Optical Society of America	19.6
Institute of Radio Engineers	9.5
American Chemical Society	9.3
Acoustical Society of America	6.2
American Mathematical Society	5.9
American Meteorological Society	1.4
Percentage indicating membership in certain other Societies written in the blank lines left on the card	
American Institute of Electrical Engineers	5.8
American Astronomical Society	1.8
American Society of Mechanical Engineers	1.5
American Electrochemical Society	1.1
Society of Motion Picture Engineers	1.0
American Society of Testing Materials	0.8
Illuminating Engineering Society	0.8
Geophysical Union	0.6
Society of Automotive Engineers	0.5
American Institute of Mining and Metallurgical Engineers	0.4
American Society of Civil Engineers	0.2
American Society of Refrigerating Engineers	0.2
Total number of different Societies reported	132
Total number of foreign Societies (including Canada)	29
Total number of engineering Societies reported	18

*All percentages computed from total number of cards returned.

MEMBERSHIP LIST
OF
THE AMERICAN PHYSICAL SOCIETY
OCTOBER, 1930

HONORARY MEMBERS

Bjerknes, Vilhelm Frimann Koren, Dr. Phil., LL.D., Professor of Mechanics and Mathematical Physics at the *University of Oslo, Norway.*

Bohr, Niels, Dr. Phil., Professor of Theoretical Physics, University of Copenhagen and Director of the Institute of Theoretical Physics, *Blegdamsveg 15, Copenhagen, Denmark.*

Bragg, Sir William (Henry), K.B.E., F.R.S., M.A., D.Sc., LL.D., Fullerian Professor of Chemistry and Director of the Davy-Faraday Research Laboratory, The Royal Institution, *21 Albemarle St., London, W. 1, England.*

Planck, Max, Dr. Phil., D.Sc., Dr. Ing., Professor of Theoretical Physics, University of Berlin, Permanent Secretary of the Prussian Academy of Sciences, *Wangenheim Str. 21, Grünewald, Berlin, Germany.*

Rutherford, Sir Ernest, Kt., F.R.S., M.A., D.Sc., Ph.D., Cavendish Professor of Experimental Physics, University of Cambridge, *Newnham Cottage, Queen's Road, Cambridge, England.*

FELLOWS AND MEMBERS

Note: A name preceded by an asterisk (*) is that of a Fellow; all others are Members. Addresses are given as on record in the office of the Treasurer.

Abbey, B. C., Niagara Falls High School, Niagara Falls, N.Y.
Abbitt, William H., Texas Technological College, Lubbock, Tex.
Abbott, Raymond B., 339 Sylvia St., West Lafayette, Ind.
Abell, Orie L., Loyola University, New Orleans, La.
Adams, Arthur S., Box 85, Golden, Colo.
***Adams,** Comfort A., Pierce Hall, Cambridge, Mass.
***Adams,** Edwin P., Princeton University, Princeton, N.J.
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Adams, John M., University of California at Los Angeles, Los Angeles, Calif.
Adams, J. T., 9 Carleton St., Lynn, Mass.
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Adamson, W. H., Huntsville, Tex.
Ahearn, Arthur J., 463 West St., New York, N.Y.
Ainslee, D. S., University of Western Ontario, London, Ontario.
Akeley, Edward S., Purdue Memorial Union, Lafayette, Ind.
Albers, Vernon M., Antioch College, Yellow Springs, Ohio.
Albertson, Walter E., Massachusetts Institute of Technology, Cambridge, Mass.
Albright, C. Leonard, University of Richmond, Richmond, Va.
Albright, John G., Case School of Applied Science, Cleveland, Ohio.

Albright, Penrose S., Southwestern College, Winfield, Kan.
Alderman, George W., Massachusetts Agricultural College, Amherst, Mass.
Alexander, Lowell M., University of Cincinnati, Cincinnati, Ohio.
Alexander, Peter F., 79 Rockaway Ave., Clifton, Mass.
***Alexanderson,** Ernst F. W., General Electric Co., Schenectady, N.Y.
Allaman, Mrs. Noah H., 1356 Hall Ave., Lakewood, Ohio.
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Allen, Mildred, Oberlin College, Oberlin, Ohio.
***Allen,** Samuel J. M., University of Cincinnati, Cincinnati, Ohio.
Allibone, Thomas E., Metropolitan-Vickers Electric Co., Ltd., Trafford Park, Manchester, England.
Allis, William P., Massachusetts Institute of Technology, Cambridge, Mass.
Allison, Fred, Alabama Polytechnic Institute, Auburn, Ala.
***Allison,** Samuel K., University of Chicago, Chicago, Ill.
Almquist, Milton L., 195 Broadway, New York, N.Y.
Almy, Frank F., Grinnell College, Grinnell, Iowa.
***Almy,** John E., University of Nebraska, Lincoln, Neb.
***Alter,** Dinsmore, University of Kansas, Lawrence, Kan.
Alty, Thomas, The University, Saskatoon, Sask., Canada.
***Ames,** Joseph S., Johns Hopkins University, Baltimore, Md.
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Anderson, Homer G., 29 Oakley Road, Watertown, Mass.
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Anderson, Owen W., University of Minnesota, Minneapolis, Minn.
Anderson, S. Herbert, Signal Corps Laboratories, Fort Monmouth, Oceanport, N.J.
Anderson, Warren F., 3900 Spuyten Duyvil Parkway, New York, N.Y.
Anderson, William B., 310 North 26th St., Corvallis, Ore.
Andres, Paul G., 23 Glenfern Ave., Toronto, Canada.
Andrews, Donald H., Johns Hopkins University, Baltimore, Md.
Andrews, Howard L., 73 Charles Field St., Providence, R.I.
Andrews, Mary R., General Electric Co., Schenectady, N.Y.
Angell, M. F., University of Idaho, Moscow, Idaho.
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Asset, Gabrielle, Wellesley College, Wellesley, Mass.
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***Atkinson,** Robert d'E., Rutgers University, New Brunswick, N.J.

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Ayres, H. D., University of Wichita, Wichita, Kan.

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Baldwin, William, Jr., 2936 North 26th St., Philadelphia, Pa.
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***Bancroft,** Wilder D., Cornell University, Ithaca, N.Y.
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***Barnes,** James, Bryn Mawr College, Bryn Mawr, Pa.
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Barnes, R. Bowling, Barnes School, Montgomery, Ala.
Barnes, Ralph W., Columbia University, New York, N.Y.
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Bartlett, Russell S., Yale University, New Haven, Conn.
***Barton,** Henry A., Cornell University, Ithaca, N.Y.
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Bassett, Preston R., 104 Broadway, Rockville Center, N.Y.
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***Bates,** Frederick J., Bureau of Standards, Washington, D.C.
Batho, Harold F., Brandon College, Brandon, Manitoba, Canada.
Bauder, Arthur R., University of Alabama, University, Ala.
***Bauer,** Louis A., 5241 Broad Branch Road, Washington, D.C.
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Bayley, Paul L., Lehigh University, Bethlehem, Pa.
***Bazzoni,** Charles B., University of Pennsylvania, Philadelphia, Pa.
***Beach,** Frederick E., Yale University, New Haven, Conn.
Beams, Jesse W., University of Virginia, University, Va.
Bearden, J. A., Johns Hopkins University, Baltimore, Md.
Beardsley, Niel F., 6223 University Ave., Chicago, Ill.
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Members	1846
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Honorary Members	5
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Wooten, Benjamin W.

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Warner, Earle H.

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Berwyn
Hartsough, R. C.
Million, John W. Jr.

Bloomington
Hargitt, Thomas F.
Lockenvitz, Arthur E.
Stillhamer, A. G.

Carbondale
Young, Otis B.

Champaign
Hoersch, Victor A.

Chicago
Allison, Samuel K.
Andersen, Erik
Aronberg, Lester
Beardsley, Niel F.
Beers, Lowell C.
Bennett, Ralph D.
Christy, Andrew
Chylinski, Stanislas
Compton, Arthur H.
Constantinides, Philip A.
Crawford, Perry O.
Crites, James E. Jr.
Darnell, Carl
Deagan, J. C.
Dempster, Arthur J.
Dershem, Elmer
Doubt, Thomas E.
Dunham, J. Lawrence
Eckart, Carl
Ellmore, W. Austin
Engle, Edgar W.
Gaddas, Sumner F.
Gale, Henry G.
Glentzer, Kenneth V.
Harkins, W. D.
Hastings, A. Baird
Headrick, Lewis B.
Heyworth, Dorothy
Hoag, J. Barton
Hodgson, M. B.
Hogness, T. R.
Holmquest, H. J.
Hoyt, Frank C.
Hughes, D. S.
Jacobsohn, S.
Johnstone, G. A.
Kazda, Charles B.
Kegerreis, Roy
Klopsteg, Paul E.
Laird, Harold R.
Lemon, Harvey B.
Lunn, A. C.
MacMahon, Andrew M.
Matlock, Robert C.
McMaster, Archie J.
Michelson, A. A.
Monk, George S.
Morse, Jared K.
Mulliken, Robert S.
Murray, Sister Mary Samuela
Naudé, S. M.
Notestein, Helen B.
Orndoff, Benjamin H.
Porter, Mildred B.
Potts, Louis M.
Rah, Joseph C.
Richardson, Donald E.
Riddel, O. A.

Chicago con't.
Rollefson, K. E.
Romig, Walter W.
Rothenstein, Otto
Saunders, Felix
Schwede, Harold F.
Shaw, Albert E.
Smith, Burke
Stearns, Fenton V.
Stein, Wesley S.
Stone, Carrington H.
Szczeniowski, Szczepan E.
Terry, H. C.
Thompson, James S.
Turnquist, Elmer N.
Verwiebe, Frank L.
Warner, Glen W.
Waterfall, Wallace
Wei, Hsioh Ren
White, William B.
Wilcox, G. M.
Wollan, E. O.

Clarendon Hills
Mann, William A.

Congress Park
Doan, R. L.

East St. Louis
Cook, Samuel G.

Elmhurst
Ollmann, Loyal F.

Evanston
Bockstahler, L. I.
Brennen, Herbert J.
Cashman, Robert J.
Crew, Henry
Gates, Fanny C.
Hagen, Rowland V.
Loring, R. A.
Overbeck, Clarence J.
Parsons, Charles W. D.
Smith, Arthur B.
Smith, Keith K.
Spence, B. J.
Woods, Robert M.

Galesburg
Galajikian, A. S.
Longden, A. C.

Galva
Clark, Margaret L.

Geneva
Kranz, Fred W.
Sabine, Paul E.

Harvey
Dickinson, Beryl H.

Highland Park
Pfanstiehl, Carl

Hinsdale
Bernhart, Arthur

La Grange
Read, H. S.
Robbins, Charles W.

Lake Bluff
Hunter, Frederick L., Jr.

Lake Forest
Harris, Roscoe E.
Scudder, Lawrence W.

Lisle
Shonka, Joseph J.

Naperville
Wall, C. N.

Oak Park
Woodruff, Albert E.

Park Ridge
Phebus, W. C.

Peoria
Jamison, N. C.
Swain, V. F.

River Forest
Fidelis, Sister Mary

Riverside
Schnable, G. L.

Rockford
Johnson, A. Frances

Rock Island
Larson, Karl G.
Magnusson, J. P.

Urbana
Baker, Robert H.
Bourgin, David G.
Clark, George L.
Cooke, F. W.
Fuller, Harold Q.
Holmes, M. C.
Ireland, C. E.
Ketchum, P. W.
Knipp, Charles T.
Kunz, Jakob
Li, Ching Hsien
Loomis, F. W.
Paton, Robert F.
Reich, Herbert J.
Rodebush, Worth H.
Sanders, William H.
Schulz, William F.
Swenson, H. N.
Tykociner, J. T.
Watson, Floyd R.
Williams, Elmer H.

Wheaton
Cook, David L.
Taylor, H. O.

INDIANA—38

Bloomington
Barnes, G. F.
Dutcher, John B.
Foley, Arthur L.
Hufford, Mason F.
Ramsey, Rolla R.

Crawfordsville
Horton, George W.

Evansville
Hovda, Olaf

Franklin
Smith, John E.

Galveston
Hyman, Hugh H.

Greencastle
Giddings, Glenn W.
Hufferd, M. Simpson
Naylor, J. P.
Smith, Orrin H.

Hanover
Martin, R. Earl

Indianapolis
Eaton, D. E.
Focke, Arthur E.

Lafayette
Abbott, Raymond B.
Akeley, Edward
Ferry, E. S.
Geib, Irving G.
George, R. H.
Johnson, A. L. Jr.
Lancaster, Forrest W.
Lark-Horovitz, Karl
Mitchell, Elizabeth A.
Read, George E.
Rheins, John J.

North Vernon
Smith, J. Kenneth

Notre Dame
Irving, Thomas P.

Richmond
Brinton, Howard H.

Sandborn
Begeman, Hilda L.

South Bend
James, William S.

Terre Haute
Hershman, Bernard
Howlett, B. A.
Mees, C. Leo

Valparaiso
Moody, H. W.

Whiting
Sparks, J. W.

Windfall
Brown, Louis F.

IOWA—40

Ames
Butler, L. W.
Fox, Gerald W.
Plagge, Herbert J.
Spinney, L. B.
Stiles, Harold
Thompson, George E.
Woodrow, J. W.

Cedar Falls
Kadesch, William H.

Cedar Rapids
Meyer, Alfred W.
Weld, LeRoy D.

Des Moines
Helmick, Paul S.
Morehouse, D. W.

Dubuque
Barta, Frank A.
Beck, C. A.

Fairfield
Collins, E. Hobart
Greene, C. W.

Grinnell
Almy, Frank F.

Indianola
Carr, A. B.

Iowa City
Ellett, Alexander
Colson, DeVer
Copeland, Paul L.
Eldridge, John A.
Frische, Carl A.
Haberly, Adolph A.
Kellogg, J. M. B.
Lapp, Claude J.
Larrick, Lewis
Stewart, G. W.
Tyndall, Edward P. T.
Waldbauer, Louis
Young, William M.
Zabel, Rolland M.
Zahl, Harold A.

Keosauqua
Peacock, H. B.

Lamoni
Mortimore, Roy H.

Mount Pleasant
Poulter, Thomas C.

Mount Vernon
Nelson, Roy A.

Sioux City
Graber, Myron E.
Gwinn, Ira J.

West Branch
Wertzbaugher, W. W.

KANSAS—21

Baldwin
Deel, S. A.

Eldorado
Dick, E. G.

Emporia
Miller, R. F.

Hays
Zinszer, Harvey A.

Hesston
Bender, Paul

Lawrence
Alter, Dinsmore
Brown, Ben E.
Kester, F. E.
Knowles, Harold L.
Rice, M. E.
Stranathan, James D.

Manhattan
Brackett, William R.
Hamilton, John O.
Lyon, Eric R.
Raburn, George E.

Newton
Friesen, A. P.

Ottawa
Bennett, James L.

Topeka
Moore, Fleming G.

Wichita
Ayres, H. D.
Cloyd, Annie

Winfield
Albright, Penrose S.

KENTUCKY—12

Berea
Noll, F. H. Waldemar
Spangler, Ross D.

Covington
Poole, Cyrus A.

Georgetown
Nash, William G.

Lexington
Koppius, O. T.
States, M. N.
Webb, William S.

Louisville
Bennet, Donald M.
Sappenfield, James W.

Morehead
Black, J. G.

Richmond
Hummell, A. D.

Russellville
Todd, John W.

LOUISIANA—4

New Orleans
Abell, O. L.
Elliott, Daniel S.
Cardwell, Alvin B.

Shreveport
Maizlish, I.

MAINE—11

Bar Harbor
Bovie, W. T.

Brunswick
Bartlett, Boyd W.
Little, Noel C.

Lewiston
Whitehorne, William R.

Orono
Crofutt, Charles B.
Fitch, A. L.
Lefler, Glenn Q.
Piston, Donald S.
Stevens, James S.

Waterville
Stanley, Winthrop H.
Wheeler, N.E.

MARYLAND—38

Aberdeen
Kent, R. H.

Annapolis
Wagner, Albert F.
Winslow, Harry J.

Baltimore
Ames, J. S.
Andrews, Donald H.
Astin, Allen
Barton, Vola P.
Bearden, J. A.
Bliss, William J. A.
Clark, Janet Howell
Frehafer, M. K.
Herzfeld, Karl F.
Hubbard, J. C.
Karrer, Sebastian
Lange, E. H.
Lee, Richard H.
Moore, William C.
Murnaghan, Francis D.
O'Bryan, Henry M.
Pfund, A. H.
Reid, Henry F.
Rosenthal, Jenny E.
Silverman, Shirleigh
Tschudi, E. W.
Weinstein, Alexander
Whitehead, John B.
Wood, R. W.

Chestertown
Miller, C. D.

Chevy Chase
Brombacher, W. G.
Duncan, Robert C.
Nutting, P. C.
Shoemaker, Maynard P.
Stutz, Walter F.
Tuckerman, L. B.

Edgewood
Zimmerman, E. E.

Frederick
Thomas, Doris

Riverdale
Maris, H. B.

Rockville
Lamar, Edward S.

MASSACHUSETTS—153

Amesbury
Dame, Mabelle C.

Amherst
Alderman, George W.
Green, Warren K.
Powers, W. F.
Soller, Theodore
Stifler, W. W.
Williams, S. R.

Belmont
Bush, Vannevar

Boston
Campbell, L. L.
Comstock, D. F.
Dittmer, Arthur F.
Duane, William
Edwina, Sister Mary
Forbes, Alexander
Hemenway, Leland D.
Hudson, J. C.
Kalmus, Herbert T.
Kent, Norton A.
Norton, C. L.
Rines, David
Rowe, Allan W.
Wilson, Edwin B.

Cambridge
Adams, C. A.
Albertson, Walter E.
Allis, William P.
Bauer, Paul S.
Beattie, James A.
Birch, Francis
Black, N. Henry
Bowles, Edward L.
Bridgman, P. W.
Cady, Willoughby M.
Calder, William A.
Chaffee, E. Leon
Compton, Karl T.
Coolidge, Albert S.
Crawford, F. H.
Danforth, William E., Jr.
Daniel, Arthur F.
Dingee, Alexander L.
Eastham, Melville
Fisher, Willard J.
Ffolliott, Charles F.
Frank, Nathaniel H.
Goodwin, Harry M.
Grabau, Martin
Hall, Edwin H.
Hardy, Arthur C.
Harrison, George R.
Haskell, N. A.
Horton, J. Warren
Hunt, Frederick V.
Jackson, Dugald C.
James, Hubert M.
Johnson, M. H., Jr.
Kemble, E. C.
Kennelly, A. E.
Keyes, Frederick G.
Killian, Thomas J.
Langer, R. M.
Lyman, Theodore
McFarlan, Ronald L.
Mann, David W.
Mimno, Harry R.
Morse, Philip M.
Muller, Hans
Norton, F. H.
Norton, John T.
Page, Newell C.
Phillips, H. B.
Pierce, G. W.
Plaskett, H. H.
Poindexter, Richard G.
Powell, Wilson M., Jr.
Rice, Oscar K.
Saunders, F. A.
Slater, John C.
Steinberger, R. L.
Stabler, Howard P.
Stockbarger, Donald C.
Stratton, J. A.
Stratton, S. W.
Tousey, Richard
Troland, L. T.
Tuttle, William N.
Vallarta, M. S.
Weeks, Paul T.
Warren, Bertram E.

Chestnut Hill
Tobin, John A.

Clifton
Alexander, Peter P.

Danvers
Majella, C. F. X.

Dorchester
Heins, Harold
Pearson, Carl A.

Dover
Taylor, Lucien B.

East Saugus
Twisden, Harry S.

Gloucester
Hammond, John Hays, Jr.
MacNutt, Barry

Hatfield
Billings, H. Louisa

Holbrook
Johnson, Ellis A.

Ipswich
Kinsman, Arthur D.

Lynn
Adams, J. T.
Pratt, Kenneth H.
Thomson, Elihu

Medford
Richards, Elizabeth W.
Smith, Charles G.
Tripp, William A.

Newton
Briggs, Thomas H.

Newtonville
Spencer, Percy L.

Northampton
Anslow, Gladys A.
Dickson, J. B.
Jones, Arthur T.
Mohler, Nora M.
Waterman, Frank A.

Pittsfield
Boone, E. Milton
Clark, Frank M.
Faccioli, G.
Peek, Frank W., Jr.

Quincy
Barlett, James H., Jr.

Salem
Bolan, Robert S.

Southbridge
Tillyer, E. D.

South Hadley
Chase, Mabel A.
Fletcher, Hazel M.
Laird, Elizabeth P.
Rusk, R. D.
Shohat, N. W. Galli.

Swampscott
Ellis, A. L.
Hollnagel, Herbert

Tufts College
Bacon, George P.

Waban
Wilson, Lucy

Watertown
Anderson, Homer G.
Field, Robert F.
Lester, H. H.

Wellesley
Armstrong, Alice H.
Asset, Gabrielle
Davis, Grace E.
McDowell, Louise S.
Shirey, Gayle

Wellesley Hills
Behrend, B. A.
Guillemin, Victor

Weston
Brock, Henry M.

Williamstown
Brinsmade, J. B.
McElfresh, W. E.
Milham, Willis I.
Oster, Robert H.
Richmond, Donald E.
Webb, Julian H.

Winchester
Lilienfeld, J. E.

Worcester
Dow, Richard B.
Duff, A. Wilmer
Ewell, Arthur W.
Mahoney, Daniel P.
Masius, Morton
Roope, P. M.

MICHIGAN—66

Alma
Ditto, R. C.

Ann Arbor
Barker, Ernest F.
Bertsch, Carl V.
Brett, George F.
Brasefield, Charles J.
Brewington, G. P.
Chamberlain, Katherine
Colby, Walter F.
Cork, J. M.
Dennison, David M.
Duffendack, O. Stanley
Firestone, Floyd A.
Geiger, P. H.
Glathart, Justin L.
Goudsmit, S. A.
Hanawalt, J. D.
Hardy, J. D.
Huxford, Walter S.
Ku, Zing Whai
Laporte, Otto
Lindsay, George A.
Martin, Paul E.
Matheson, Lorne A.
Meyer, Charles F.
Miller, George R.
Montgomery, L. D.
Owens, James S.
Plyler, Earle K.
Randall, H. M.
Reichard, Herbert H.
Rich, Daniel L.
Sawyer, Ralph A.
Sawyer, Raymond B.
Sleator, William W.
Smith, Arthur W.
Thomassen, Lars
Uhlenbeck, George E.
Williams, N. H.
Wright, Norman

Battle Creek
Field, James E.
Hooper, W. J.

Detroit
Byerlay, H. R.
Hanley, Stanley M.
Hunt, J. H.
Kettering, Charles F.
Martin, Edward J.
Phelps, Everett R.
Rassweiler, G. M.
Weinberg, Frederick

East Lansing
Chamberlain, Clark W.
Chapman, Charles W.
Kimball, William S.
Morrison, Edwin

Highland Park
Greig, Walter A.

Hillsdale
Penrod, E. B.

Holland
Bloemendal, George W.

Houghton
Partlo, F. L.

Jackson
Rich, Charles E.
Thompson, Harry C.

Kalamazoo
Fox, John E.
Hornbeck, John W.
Rood, Paul

Midland
Grebe, John J.
Morell, L. G.

Muskegon
Couch, W. Robert

Ypsilanti
Gorton, F. R.

MINNESOTA—33

Minneapolis
Anderson, Owen W.
Buchta, J. W.
Erikson, Henry A.
Glockler, George
Heminway, Allan
Hill, Edward L.
Leidal, Floyd L.
Lind, S. C.
Liska, John W.
Miller, L. F.
Owens, Herbert D.
Palmer, R. Ronald
Ryerson, Lloyd H.
Smith, Phillip T.
Stenstrom, Wilhelm
Tate, John T.
Valasek, Joseph
Wetzel, W. W.
Wilcox, Hugh B.
Wilson, John L.
Zeleny, Anthony

Northfield
Fossom, Peter E.
Hetle, Erik
Stewart, Maude G.

Robbinsdale
Hartig, Henry E.

Rochester
Baldes, E. J.
Herrick, Julia F.
Ort, John M.
Sheard, Charles

St. Joseph
Werth, Sister Magna

St. Paul
Madigan, John A.
Moench, Leopold W.
Overn, O. B.

MISSISSIPPI—1

University
Kennon, W. L.

MISSOURI—30

Columbia
Dufford, R. T.
Hamond, H. E.
Reese, Herbert M.
Stewart, O. M.

Fulton
Scott, Harold H.

Kirksville
Cleeton, C. E.

Maryville
Hake, J. W.

Parkville
Rogers, Robert A.

Rolla
Frame, Floyd H.
Jensen, William J.
Ratliff, R. T.
Woodman, L. E.

St. Charles
Karr, Lois

St. Joseph
Pistorius, Grant L.

St. Louis
Bubb, Frank W.
DuBridge, Lee A.
Hagenow, Charles F.
Hughes, A. L.
James, Louis E.
Jauncey, G. E. M.
Kernaghan, Madame Marie
Macelwane, James B.
McMillen, J. H.
Poindexter, Franklin E.
Roehr, Walter W.
Shannon, James I.
Van Atta, L. C.
Van den Akker, Johannes A.
Vollmayer, Leo

Swedeborg
De Foe, O. K.

MONTANA—3

Bozeman
Johnson, Arthur J. M.
Kiefer, James A.

Opheim
Lemery, Frances

NEBRASKA—8

Chadron
Philpott, Charles W.

Lincoln
Almy, John E.
Barager, Arnold E.
Marvin, H. H.
Schilling, Harold K.
Sharp, C. W.
Smith, T. Townsend

University Place
Jensen, J. C.

NEVADA—1

Reno
Hartman, L. W.

NEW HAMPSHIRE—14

Concord
Sears, Frederick E.

Durham
Howes, H. L.
Moran, Clement
Starke, Raymond R.

Hanover
Campbell, C. J.
Childs, Herbert R.
Gilbert, Norman E.
Glidden, Gordon H.
Hull, G. F.
Meservey, Arthur B.
Murch, Leslie F.
Proctor, Charles A.
Tanch, Joseph W.

Kearsage
Newhall, Ralph P.

NEW JERSEY—145

Ampere
Harrison, J. R.
Hund, August

Asbury Park
Skellett, A. M.

Bloomfield
Beese, Norman C.
Hazen, Thomas
Kannenstine, Fabian M.
McCurdy, W. H.
Moran, William G.
Rentschler, Harvey C.
Sidney, Charles W.
Slack, C. M.
Smith, Kenneth O.
Thomas, Charles H.
Ulrey, Clayton T.
Zinzow, W. A.

Boonton
Ballantine, Stuart
Cobb, Howard L.
Drake, Frederick H.
Hull, Lewis M.

Caldwell
Boardman, Leland J.
Stacy, Leland J.
Taylor, Thomas S.

Camden
Batchelor, John C.
Bloomenthal, Sidney
Wolff, Irving

Clifton
Dobson, George

Deal
Sowers, Nelson E.

East Orange
Aster, A. K.
Dodd, Dorthy M.
Flanders, Paul B.
Harris, Sylvan
Heindlofer, K.
Lorenz, Charles F.
Mailey, R. D.
Samuel, Arthur L.
Shackelford, B. E.
Stanwick, Charles A.
Sullivan, Roy R.
Walton, Albert S.
Weeks, John R., Jr.

Freehold
Englund, Carl R.

Glen Ridge
Brainin, Clement S.

Haddonfield
Zworykin, Vladimir

Harrison
Power, A. D.
Shaw, George R.

Hoboken
Davis, Harvey N.
Frank, H. C.
Hodge, Percy
Kenty, Carl
Stemple, W. M.

Kearny
Bain, Edgar C.
Rossbacher, H.
Sosman, Robert S.

Leonia
Morse, Leighton B.

Linden
Tate, George E.

Mahwah
Grisewood, Edgar N.

Maplewood
Bleick, Willard E.
Maxfield, J. P.
Schelleng, J. C.

Millburn
Nyquist, Harry

Montclair
Lane, C. E.
Weston, Edward

Moorestown
Kellogg, Edward W.

Newark
Goodwin, W. N., Jr.
Heimlich, Simon W.
Ranger, R. H.
Stauss, Henry E.

New Brunswick
Atkinson, Robert d'E.
Hardy, T. C.
Greenlees, A. Lloyd
Hoover, Paul L.
Jackson, W. J.
Pratt, Frank R.
Seidman, Oscar
Van Dyck, Pierre
Vieweg, Alice M.
Winchester, George

Oceanport
Blair, William R.
Anderson, S. Herbert

Orange
Jameson, Malcolm F.
Schlenker, Vesper A.

Passaic
Mooney, Melvin

Perth Amboy
Welo, Lars A.

Plainfield
Wade, Worth

Princeton
Adams, Edwin P.
Arnott, Edward G. F.
Bleakney, Walker
Boyce, Joseph C.
Condon, Edward U.
Cooke, H. L.
Frantz, Samuel G.
Frey, Bernhard
Harnwell, Gaylord P.
Harrington, Marshall C.
Kimball, George E.
Korff, S. A.
Linford, Leon B.
Livingood, J. J.
Longacre, Andrew
Loomis, E. H.
MacInnes, Janet M.
Magie, W. F.
McMillan, Edwin M.
Michels, Walter C.
Morris, J. C., Jr.
Mueller, Donald W.
Nickerson, John L.
Robertson, H. P.
Russell, Henry N.
Samson, Edward W.
Shenstone, A. G.
Shortley, George H., Jr.
Smyth, H. D.
Stewart, John Q.
Stueckelberg, Ernst K. G.
Taylor, Hugh S.

Princeton con't.
Thomas, Tracy Y.
Trowbridge, Augustus
Turner, Louis A.
Van de Graaff, Robert J.
Veblen, Oswald
Van Vorrhis, C. C.
Wells, Philip V.
Willis, C. H.
Zahn, Charles T.

Rahway
Terrill, Harold M.

Red Bank
Mutch, W. W.

Ridgewood
Bishop, John S.

Rutherford
Randolph, James R.

Short Hills
Miessner, Benjamin F.
Wilson, William

South Orange
Winninghoff, W. J.

South River
White, Deane R.

Stelton
Porter, David D.

Summit
Day, Wm. Scofield

NEW MEXICO—1

Roswell
Goddard, Robert H.

NEW YORK—470

Albany
Hale, C. F.
Power, C. E.

Auburn
Case, Theodore W.

Aurora
Gaehr, Paul F.

Brighton
Carver, E. K.

Brooklyn
Clo, J. H.
Davidson, W. F.
Duncan, James A.
Fairchild, Charles O.
Fenn, Irwin H.
Fraim, Parker B.
Graham, Frank H.
Greibach, E. H.
Hausmann, Erich
McGoldrick, R. T.
Mock, Frank C.
Pietenpol, C. J.
Schwarzschild, Myron M.
Skinker, Murray F.
Thompson, James E.
von Nardroff, Ernest R.
Weideman, Gustave

Buffalo
Cooke, T. F.
Dana, Leo I.
Delaney, J. P.
Hector, L. Grant
Jones, R. N.
MacKay, Thomas C.
Moore, Edward J.
Olmstead, Charles M.
Parker, Selby C.
Schwabe, Louise A.
Stephenson, B. R.
Yates, Raymond F.

Canton
May, Frederick A.
Smith, John F.

Corning
Day, Ralph K.
Fulcher, Gordon S.
Guyer, Edwin M.
Lewis, Evan J.
Littleton, Jesse T.
McCauley, George V.

Elmira
Pomeroy, J. C.

Fredonia
Horlacher, A. F.

Geneva
Haussmann, Alfred C.

Glens Falls
Scott, Merit

Hamburg
Sharp, Donald E.

Hamilton
Child, Clement D.
Gleason, Paul R.

Ithaca
Bancroft, Wilder D.
Barnes, LeRoy L.
Barnes, S. W.
Barton, Henry A.
Bedell, F.
Boothroyd, S. L.
Collins, J. R.
Cuykendall, Trevor
Gartlein, Carl W.
Geer, William C.
Gibbs, R. Clifton
Gilroy, Helen T.
Goldsmith, Norris W.
Grantham, G. E.
Hirsh, Frederick R., Jr.
Howe, Harley
Jones, Matthew T.
Karapetoff, Vladimir
Kennard, E. H.
Kruger, Gerald
Linder, Ernest G.
Manning, Kenneth V.
Merritt, Ernest
Murdock, Carleton C.
Nelson, H. R.
Nichols, Edward L.
Richards, Lorenzo A.
Richtmyer, F. K.
Ruedy, John E.
Rule, William
Shapiro, Caspar V.
Shaw, R. William
Teeple, John H.
Then, John W.
Trawick, M. Whitford
Heising, R. A.
Snook, H. Clyde

Trenton
Fireman, Peter
Rolnick, Harry

Upper Montclair
Chestnut, Roy W.
Glenn, Earl R.

Westfield
Becker, A. E.
Kinsley, Carl
Townshend, Bailey

West Orange
Roman, Irwin
Webb, J. S.
Wilber, David T.
Wood, Lawrence A.

Lockport
Feild, Alex L.

Long Island
Boggs, Emily H.
Brock, James E.
David, John A.
Efron, Alexander
Fricke, Hugo
Hickman, C. N.
Lewis, Harold M.
Mertz, P.
Morrison, Montford
Schneider, Walter
Underhill, Charles R.
Wheeler, Harold A.
Williams, Richard M.

Mount Vernon
Macalpine, William W.

New Rochelle
Bergstein, M.

New York City
Ahearn, A. J.
Almquist, Milton L.
Anderson, Warren F.
Arnold, H. D.
Balamuth, Lewis
Ball, Albert
Barnes, Arthur H.
Barnes, Ralph W.
Becker, Joseph A.
Beller, William C.
Bennett, W. R.
Bitner, Ralph E.
Bjornson, Bjorn G.
Black, K. Charlton
Blackburn, Charles M.
Blackman, Ralph B.
Blackwell, Otto B.
Blanchard, Kenneth C.
Boeker, Gilbert F.
Bonell, Ralph K.
Boorse, Henry A.
Bowen, Francis H.
Bozorth, Richard M.
Brattain, Walter H.
Breit, G.
Brown, William F., Jr.
Buckley, Oliver E.

New York City con't.
Buggeln, Gertrude
Calbick, Chester J.
Caldwell, O. H.
Callihan, Dixon
Campbell, G. A.
Campbell, George C.
Carter, Charles W., Jr.
Cartwright, Randle V.
Carty, John J.
Chase, Carl T.
Cioffi, Paul P.
Clokey, A. A.
Cole, Kenneth S.
Collins, T. R. D.
Colpitts, E. H.
Cooley, J. T.
Corcoran, Charles A.
Corey, Robert B.
Cox, Richard T.
Crew, William H.
Crooker, S. J.
Cutting, Fulton
Darrow, Karl K.
Davidson, John Jr.
Davis, Bergen
Davisson, Clinton J.
Demarest, Charles S.
Doermann, Frederick W.
Dudley, Homer W.
Dunn, H. K.
Dunning, J. R.
Edwards, Paul G.
Eglin, James M.
Ellis, W. C.
Ellwood, Walter B.
Estey, Roger S.
Exner, Frank M.
Farwell, H. W.
Ferguson, John G.
Ferguson, W. F. C.
Finch, W. G. H.
Fletcher, Harvey
Foster, Donald D.
Fox, William
Frederick, Carl L.
Frederick, H. A.
Free, E. E.
Freed, Joseph D. R.
Friend, H. H.
Fritts, E. C., Jr.
Fry, Thornton C.
Galt, Rogers H.
Garrett, Paul H.
Garth, Robert C.
Geer, Willard
Germer, L. H.
Gernsback, Hugo
Gilbert, John J.
Golden, Asher
Goldsmith, Alfred N.
Gorton, William S.
Goucher, Frederick S.
Granath, Louis P.
Gray, Frank
Gray, Newton M.
Guthrie, A. N.
Ham, Lloyd B.
Hammer, William J.
Hartley, Ralph V. L.
Hartman, Charles D.
Hartmann, F. M.
Hauser, Edgar R.
Hayner, Lucy J.
Hebbert, C. M.
Hepburn, Ann B.
Hering, D. W.
Herrington, H. W.
Hilberry, Norman
Hoffman, Samuel V.
Hogg, John I.
Hooker, E. H.
Horton, A. W., Jr.
Hull, H. L.
Hunsaker, J. C.
Hunt, Franklin L.
Ingalls, Albert G.
Ingram, Sydney B.
Irby, Franklin S.
Ives, Herbert E.
Jaycox, Edwin K.
Jensen, Axel G.
Jewett, Frank B.
Johnson, John B.
Johnsrud, A. L.
Jones, Philip C.
Jones, Reginald L.
Kanolt, C. W.
Keller, Arthur C.
Kelly, M. J.
Kendall, B. W.
Kingsbury, Burton A.
Kingsbury, E. F.
Kirk, Edward B.
Kirkpatrick, D. Everette
Kotterman, Chester A.
Kurrelmeyer, Bernhard
Lack, Frederick R.
Lambly, John E.
LaMer, Victor K.
Langford, Grace
Legg, Victor E.
Liebowitz, Benjamin
Lindsey, Tate
Little, Edward M.
Llewellyn, Fred B.
Lockrow, Laurice L.
Long, M. B.
Lotka, Alfred J.
Lynch, J. Joseph
Lynch, William A.
Lynde, Carleton J.
Mac Coll, L. A.
Mac Innes, D. A.
MacKenzie, Donald
MacNair, Walter A.
Maltby, Margaret E.
Malter, Louis
Mann, Hubert
Mannes, Leopold D.
Marcus, Alexander
Marrison, Warren A.
Mason, Max
Mason, Warren P.
Mathes, Robert C.
Mendenhall, H. E.
Merica, Paul D.
Messenger, Helen A.
Millar, Preston S.
Mills, John
Mitchell, Dana P.
Mohr, Franklin
Morecroft, John H.
Morehouse, W. B.
Morgan, J. Livingston R.
Muller, Ralph H.
Myers, Frank E.
Newby, Neal D.
Nicholson, Robert F.
Nicolson, Alexander M.
Nile, Stephen Jr.
Nix, Foster C.
Norman, Nathaniel C.
Norton, E. L.
Null, F. E.
Olmstead, P. S.
Olpin, A. Ray
Olson, Harry F.
Osborne, Harold S.
Otten, Henry
Palmer, Herbert H.
Parsons, R. V.
Parr, Harry L.
Pegram, George B.
Peterson, Eugene
Pidgeon, Howard A.
Pooler, Louis G.
Potter, Robert D.
Prescott, C. H., Jr.
Pupin, M. I.
Quimby, Shirley L.
Rabi, I. I.
Randall, Robert H.
Ratner, Simeon A.
Reeves, Russell
Reynolds, F. W.
Riesz, Robert R.
Rodgers, S. E.
Romig, Harry G.
Rose, John L.
Sacia, C. F.
St. John, Ancel
Salant, Edward O.
Sandow, Alexander
Santos, Anthony S.
Saurel, Paul L.
Schaeffer, E. R.
Schlink, F. J.
Sears, Raymond W.
Semat, H.
Severinghaus, W. L.
Shackleton, S. P.
Sharp, Clayton H.
Sheldon, H. H.
Shewhart, W. A.
Shore, Henry
Siegmund, H. O.
Sinclair, David
Sivian, L. J.
Smith, Herschel
Somerville, A. A.
Sonkin, Simon
Southall, James P. C.
Southworth, G. C.
Spencer, Roy C.
Spring, William J.
Steinberg, John C.
Stevens, Ralph R.
Stone, C. G., Jr.
Swan, Clifford M.
Taylor, E. Gordon
Thompson, Albert C.
Thuras, Albert L.
Treleaven, Clifford L.
Trueblood, H. M.
Truesdell, W. B.
Turner, Alva
Urey, Harold C.
Van Nuys, Claude C.
Volkmann, John E.
Von Nardroff, Robert
Vreeland, Frederick K.
Walther, Henry
Ware, Lawrence A.
Waterman, Frank N.
Webb, Harold W.
Wegel, R. L.
Wehe, Herman G.
Welch, George P.
Welsh, Thomas W. B.
Wente, E. C.
West, William
Wetzel, R. A.
Whitaker, M. D.
Whittemore, Laurens E.
Willard, Gerald W.
Williams, H. B.
Willis, H. Hugh
Wills, A. P.
Wilson, R. H.
Woodbridge, Donald B.
Woodmansee, Buryl S.
Wyckoff, Ralph W. G.
Zacharias, J. R.
Zemansky, Mark W.
Zobel, O. J.

Niagara Falls
Abbey, B. G.

Oneonta
Pierce, William M.

Pearl River
Baker, Carl I.

Potsdam
Bair, W. H.
Washer, Francis E.

Poughkeepsie
Carter, Edna
Flowers, A. E.
Gray, G. Francis
Lammert, Olive M.
Wheeler, Mary A.
Wick, Frances G.

Riverdale-on-Hudson
Failla, Gioacchino
Williams, Clarke

Rochester
Bishop, F. M.
Clark, Herbert A.
Dewey, Jane M.
Fairbanks, Floyd C.
Hubbard, Karl H.
Jones, Loyd A.
Lawrence, Henry E.
Lee, Thomas L.
Lomb, Adolph
Mees, C. E. K.
Noyes, Bradford Jr.
O'Brien, Brian
Seemann, Herman E.
Silberstein, Ludwik
Steadman, Luville T.
Wallis, C. T.
Wilkins, T. Russell
Wilsey, Rex B.

Rockville Center
Bassett, Preston R.

Saratoga Springs
Hobbie, J. R.

Scarborough
Brown, Fay C.

Scarsdale
Fearing, Justin L.

Schenectady
Alexanderson, Ernst F. W.
Andrews, Mary R.
Bigsbee, Earle M.
Blodgett, Katherine
Bucher, Julius V. D.
Coolidge, William D.
Dalton, Philip
Dushman, Saul
Ferguson, Charles V.
Found, Clifton G.
Grover, Frederick W.
Hewlett, Clarence W.
Hull, Albert W.
Hyatt, J. M.
Jacobson, Moses
Jesse, William P.
Kimball, A. L.
Kingdon, Kenneth H.
Koller, Lewis R.
Langmuir, Irving
Libman, Earl E.
Mackay, G. M. J.
Prince, David C.
Race, Hubert H.
Reynolds, Neil B.
Rice, Chester W.
Robinson, L. T.
Rojansky, V.
Smith, James J.
Studer, Frank J.
Taylor, George F.
Taylor, John Bellamy.
Taylor, John B.
Tear, James D.
Tonks, Lewi
Villars, D. S.
Warner, John C.
Whitney, W. R.
Wilson, Thomas A.
Wold, P. I.

Scotia
Hitchock, William J.
Rysko, Leo J.
Vogdes, Francis B.

Syracuse
Brightman, Charles L.
Fazel, Charles S.
Frederickson, W. R.
Henderson, Charles W.
Lyle, George A.
Meredith, Clive S.
Porter, R. A.
Randall, D. P.

Tarrytown
Case, Leslie V.

Troy
Carragan, G. Howard
Patterson, Robert A.
Robb, William L.

Tuxedo Park
Loomis, Alfred L.

Watertown
Sillcox, Lewis K.

White Plains
Minton, John P.

Yonkers
Grant, Royal E.
Wood, R. S.

NORTH CAROLINA—16

Chapel Hill
Fussler, Karl H.
Stuhlman, Otto, Jr.

Durham
Collins, Gyfford D.
Constant, F. Woodbridge
Edwards, Charles W.
Graves, Robert W.
Hatley, Charles C.
Swanson, J. Chester

Greensboro
Warfield, C. N.

Raleigh
Derieux, J. B.
Dixon, A. A.
Heck, Charles M.
Lancaster, Forrest W.

Salisbury
Braun, Milton L.

Swannanoa
Mann, E. Ray

Wake Forest
Speas, William E.

NORTH DAKOTA—2

Grand Forks
Byers, Cecil W.

Valley City
Soroos, Adolf

OHIO—116

Akron
Blaker, Ernest
Dieterich, E. O.
Evans, Rhys D.
Fouts, Omer R.
Gehman, Samuel D.
Householder, Frederick F.
Howey, J. H.
Karrer, Enoch
Miller, K. J.
Rollefson, Aimar H.

Alliance
Shollenberger, Forest

Athens
Atkinson, A. A.

Berea
Unnewehr, E. C.

Chillicothe
Lagerpusch, Horace H.

Cincinnati
Alexander, Lowell M.
Allen, Samuel J. M.
Berkey, Donald K.
Craig, P. H.
Dwight, C. H.
Ecker, H.
Gowdy, Robert C.
Hunter, Theodore A.
Lehnoff, Raymond
Liebel, G. H.
Loofbourow, John R.
More, Louis T.
Salkover, Meyer
Wilczewski, Joseph

Cleveland
Adams, Elliot Q.
Albright, John G.
Barnes, B. T.
Blair, Henry A.
Chaney, N. K.
Crehore, Albert C.
Easley, Adelaide
Erf, Herbert A.
Forsythe, William E.
Glasser, Otto
Hodgman, Charles D.

Cleveland con't
Jeffries, Zay
Luckiesh, M.
Martin, John R.
Miller, Dayton C.
Miller, Lewis B.
Mountcastle, Harry W.
Nusbaum, C.
Roller, P. E.
Sawyer, Charles B.
Skinner, E. W.
Spencer, Charles D.
Van Horn, Irving H.
Victoreen, John A.
Wiggers, C. J.

Columbus
Blake, F. C.
Fleming, Arthur W.
Green, Jerome B.
Heil, H. G.
Hesthal, Cedric E.
Huber, Paul
Irion, Clarence E.
Knauss, Harold P.
Knorr, Harry V.
Mack, Edward Jr.
Meara, F. L.
Nieslen, H. H.
Patty, John R.
Pool, M. L.
Roth, Herman, M.
Russell, H. W.
Smith, Alpheus W.
Smith, Alva W.
Steele, Paul J.
Zumstein, R. V.

Cuyahoga Falls
Purdy, John F.

Dayton
Buffington, R. M.
Burka, Samuel M.
Goldberg, M. M.
Koch, Wendell R.
Phillips, Marcella J.
Schleter, G.

Delaware
Jarvis, Charles W.
Stetson, Harlan T.
Woodbury, D. A.

Gambier
Cottrell, C. L.
Johnson, Elbe H.

Granville
Ladner, A. Collins
Smith, Leon E.

Hiram
Dooley, Donald
Pritchard, Howard A.

Irwin
Roots, Yale K.

Lakewood
Allaman, Mrs. Noah

Marietta
Phillips, T. D.

Miamisburg
Roese, Herbert B.

Middletown
Gundersen, Daniel T.

North Canton
Tucker, Wilmer H.

Oberlin
Allen, Mildred
Howe, Carl E.
Taylor, L. W.
Tucker, F. G.

Oxford
Boydston, R. W.
Edwards, Ray L.
Locher, Gordon, L.
Morrow, Roger M.

South Euclid
Bennington, Paul W.

Springfield
Crozier, William

Steubenville
Homan, John G.

Tiffin
Stinchcomb, G. A.

Toledo
Karbler, John P.
Lorenz, Edward J.

Wilmington
Pyle, William R.

Wooster
Coven, A. W.
Westhafer, William R.

Yellow Springs
Albers, Vernon M.
Owen, Gwilym E.

Youngstown
Foard, Castle W.

Zanesville
Brown, Townsend

OKLAHOMA—21

Alva
Louthan, Guilford W.

Enid
Hill, Bruce V.

Helena
McCollum, E. V.

Norman
Brookings, Leslie E.
Crawford, F. W.
Dodge, H. L.
Jordan, Walter H.
Nielsen, J. Rud
Roller, Duane
Roys, Harvey C.
Schriever, William
Thorton, Vernon
Warburton, Fred W.
Watson, Tully

Oklahoma City
Haseman, W. P.
Woodward, Carl S.

Shawnee
Sweet, Reginald C.

Tonkawa
Webb, Wayne

Tulsa
Melcher, A. F.
Waddell, Senn
Weatherby, B. B.

OREGON—8

Corvallis
Anderson, William B.
Weniger, W.

Eugene
Boynton, W. P.
Caswell, Albert E.
McAlister, Edward D.
Norris, Will V.

Portland
Knowlton, A. A.
O'Day, Marcus D.

PENNSYLVANIA—212

Allentown
Zartman, I. F.

Annville
Grimm, Samuel O.

Aspinwall
Croup, Alfred H.

Bethlehem
Bayley, Paul L.,
Berger, Charles E.
Bidwell, Charles C.
Carwile, Preston B.
Ewing, Maurice
Frey, Austin R.
Holmes, F. T.
Larkin, Charles R.
Peterssen, Max H.

Brookline
Huff, Thomas E.
Rosengarten, George

Bryn Mawr
Barnes, James
Huff, William B.

Bucks County
Clark, Bertha M.

Carlisle
Parlin, Wellington A.

Chambersburg
Weeks, Dorothy W.

Collegeville
Klingaman, Foster E.

Denver
Wehr, M. Russell

Drexel Hill
Voorhees, H. R.

Easton
Balderston, Mark
Bingham, Eugene C.
Clark, Harold T.
Gordon, C. McCheyne
McQuarrie, W. C.
Stone, S. Bradford

Edgewood
Bouton, Craig M.
Dehlinger, Walter H.

Emporium
Kievit, Ben Jr.

Gettysburg
Cheney, Elliot W.

Haverford
Palmer, Frederick Jr.

Irwin
Miles, J. Walter

Johnstown
Trytten, M. H.

Lampeter
Snavely, Benjamin

Lancaster
Charles, Rollin L.
Fry, Howard M.
Luckey, George P.
Wenrich, Calvin N.

Lansdowne
Duncan, Ralph W.
Kabakjian. D. H.

Lewisburg
Hall, V. B.
Lowry, W. N.
Simpson, F. M.

Meadville
Ling, Charles J.

Mechanicsburg
Strong, W. W.

Media
Nottingham, Wayne B.

Merion Station
Blake, Sue A.

New Wilmington
Moorhead, John G.
Swindler, James A.

Palmerton
Stutz,George F. A., Jr.
Waring, Robert K.

Philadelphia
Allen, Alexander J.
Baldwin, William Jr.
Barker, Harold C.
Bazzoni, Charles B.
Biddle, James G.
Bohn, J. Lloyd
Brady, Edward J.
Brainerd, J. Grist
Bronk, D. W.
Butts, Donald C. A.
Chang, Chen Shih
Cope, Thomas D.
Cornog, I. Clyde
Creagmile, William B.
Dike, Paul H.
Doyle, Edgar D.
Eldridge, Sophie W.
Faust, Lawrence Y.
Fogelsanger, D. A.
Fulweiler, Walter H.
Goodspeed, Arthur W.
Gray, Arthur W.
Harkins, M. R.
Harrison, T. R.
Heath, L. O.
Hoyt, J. E.
Ives, Frederick E.
Jameson, J. M.
Knoll, L. M.
Lay, John T.
Leeds, M. E.
McDonald, Ellice
Milner, R. D.
Morgan, Raymond
Mulder, Peter J.
Nutting, Floyd L.
Partridge, Edward A.
Peters, Jacob C., Jr.
Razek, Joseph
Redding, C. S.
Richards, Horace C.
Roberts, Oscar L.
Rodman, Jessie A.
Shrader, James E.
Smith, Russell P.
Stein, I. Melville
Thwing, Charles B.
Van Dyke, George D.
Waldie, Alma T.
Weatherwax, James L.
Witmer, Enos E.
Zener, Clarence

Phoenixville
Rapp, I. M.

Pittsburgh
Ballard, James W.
Bangratz, E. G.
Bishop, F. L.
Bitter, Francis
Blackwood, Oswald
Boreman, Robert W.
Bourland, Langford T.
Burns, Keivin
Dysart, Paul M.
Eckhardt, E. A.
Findlay, John H.
Foote, Paul D.
Fox, Harold E.
Greenslade, G. R.
Grzycowski, John M.
Hammer, Sigmund I.
Hanna, Clinton R.
Harper, D. Roberts 3rd
Haverstick, Earl J.
Hill, Charles F.
Hower, H. S.
Hutchisson, Elmer
Kintner, S. M.
Lewis, Bernard
Maxfield, Frederick A.
Muskat, Morris
Nathanson, J. B.
Nettleton, L. L.
Oplinger, Kirk A.
Osgood, Thomas H.
Perkins, Beauregard, Jr.
Piersol, Robert J.
Prince, Charles W.
Pugh, Emerson M.
Rashevesky, Nicholas
Ritzmann, Otto F.
Ruark, A. E.
Ruark, Grace H.
St. Peter, W. N.
Sashoff, Stephen P.
Schad, Lloyd W.
Sieg, L. P.
Skinner, C. E.
Slepian, Joseph J.
Smede, Lloyd
Solt, Irvin H.
Sorenson, Andrew J.
Taylerson, E. S.
Taylor, Paul B.
Thomas, Phillips
Titus, Tillman G.
Ulrey, Dayton S.
Walters, Francis M., Jr.
White, John E.
Wolf, Alfred
Worthing, A. G.
Yensen, Trygve D.
Zobel, Carl G. F.

Scranton
Lewis, Brother George

Selinsgrove
Ovrebo, Paul J.

State College
Bordner, Earl R.
Davey, Wheeler P.
Duncan, David C.
Ham, William R.
Kiehl, Harry R.
LeGalley, Donald P.
Morris, Melvin M.
Owens, F. W.
Pielemeier, W. H.
Shetler, W. Lewis
Smith, F. Raymond
Van Velzer, Harry L.
White, Marsh W.

Swarthmore
Bainbridge, Kenneth T.
Bramley, Arthur
Garrett, Milan W.
Hoadley, George A.
Johnson, Thomas H.
Maxwell, L. R.
Mitchell, Allan C. G.
Nielsen, Walter M.
Swann, W. F. G.
Workman, E. J.
Wright, Winthrop R.

Swissvale
Cravath, Austin M.
Grondahl, L. O.
Gross, Joseph E.
Spooner, Thomas
Sidhu, Surain S.

Tamaqua
Moore, Howard R.

Trafford
Kimmel, W. J.

Washington
Munce, R. J., Jr.

West Chester
McCorkle, Paul

Wilkinsburg
Bahls, W. E.
Dowling, Philip H.
Karelitz, George B.
Knowles, Dewey D.
Lowry, E. F.
Marshall, D. E.
Mason, R. C.
Mouromseff, I. E.
Philpott, La Verne R.
Sutherlin, Lee
Toepfer, A. H.
Wilson, Earl D.

RHODE ISLAND—16

Kingston
Coggins, C. L.

Newport
Eppley, Marion
Greenlaw, Frank M.

Providence
Andrews, Howard L.
Barus, Carl
Bennett, Clarence E.
Farnsworth, H. E.
Kraus, Charles A.
Lindsay, R. B.
Miller, Carl W.
Noyes, William A., Jr.
Onsager, Lars
Palmer, A. de F.
Rose, Bernhard A.
Underwood, Newton
Williams, Morgan

SOUTH CAROLINA—10

Charleston
Smith, N. F.

Clemson College
Brown, Hugh M.
Godfrey, William E.
Sheldon, Dawson C.

Clinton
Koehler, James F.

Columbia
Ball, Thomas F.
Coleman, J. B.
Mercer, Charles F.

Rock Hill
Coulson, John

Seneca
Hendricks, Jesse C.

SOUTH DAKOTA—3

Brookings
Fagan, Henry D.

Madison
Burns, John F.

Sioux Falls
Hoyem, Albert G.

TENNESSEE—9

Chattanooga
Cornelius, D. W.

Harrogate
Hutchinson, R. O.
Miley, H. Artis

Knoxville
Hertel, K. L.

Memphis
Rhodes, Peyton N.
Roop, H. D.

Nashville
Fountain, C. R.
Slack, Francis G.

Sewanee
Petry, Robert L.

TEXAS—37

Abilene
Olsen, Julius

Amarillo
Burnett, Mrs. Earl S.

Austin
Boner, Charles P.
Brown, S. Leroy
Kuehne, John M.
Mather, William T.
Romberg, Arnold

College Station
Silvey, O. W.

Dallas
Jenness, J. R.
Karcher, John C.
Lawther, Harry Jr.
McDonald, Frank C.
Richert, B. E.

El Paso
de Quevedo, Francis G.

Fort Worth
Gaines, Newton

Georgetown
Guthrie, Vernon

Houston
Blau, L. W.
Bryan, A. B.
Evans, Griffith C.
Hartley, Kenneth
Heaps, C. W.
Locher, Gordon L.
Neuman, Leonard J.
Pennington, John V.
Ricker, Norman H.
Wilson, H. A.

Huntsville
Adamson, W. H.

Lubbock
Abbitt, William H.
George, E. F.
Hill, Harry
Schmidt, C. C.
Wait, Albert H.

Odessa
Beers, Roland F.

San Antonio
O'Byrne, Sister Michael E.
Paulin, Eugene A.

Waco
Spencer, S. R.

Waxahachie
Kennedy, W. Jay

UTAH—8

Logan
Gardner, Willard
West, Frank L.

Provo
Eyring, Carl F.
Marshall, Milton

Salt Lake City
Merrill, Joseph F.
Parmley, Thomas J.
Plumb, Hylon T.
Tugman, Orin

VERMONT—4

Burlington
Holmes, R. M.
Slocum, Allison W.

Middlebury
Bryant, Ernest C.

Northfield
Howes, Douglas E.

VIRGINIA—30

Ashland
Keeble, W. H.

Blacksburg
Lee, Claudius
Robeson, F. L.

Clarendon
Darnell, Richard C.

Dahlgren
Riffolt, Nils
Thompson, Louis

Emory
Brown, W. Byron

Ettrick
Hunter, J. McN.

Hollins
Farnsworth, G.
Smith, Letha A.

Langley Field
Pinkerton, Robert M.

Lynchburg
Boggs, Isabel
Kilby, Clinton M.

Petersburg
Davis, John W.

Richmond
Albright, C. Leonard
Boyer, Donald P.
Chappell, R. R.
Loving, R. E.

Sweetbriar
Edwards, Preston H.

University
Beams, J. W.
Brown, Frederick L.
Givens, James W., Jr.
Hootman, James A.
Hoxton, L. G.
Sparrow, C. M.
Stevenson, E. C.
Street, Jabez C.
Tiedeman, John A.

Williamsburg
Merrymon, Wm. Walter
Young, R. C.

WASHINGTON—18

College Place
Kretchmar, George G.

Lacey
Rozycki, Henry J.

Port Townsend
Mei, Alex I.

Pullman
Eckels, Charles K.
Steele, B. L.

Seattle
Badgley, R. E.
Brakel, Henry L.
Henderson, Joseph E.
Kenworthy, Ray W.
Magnusson, C. E.
Newbury, Mrs. Kirsten
Osborn, Frederick A.
Sanderman, L. A.
Utterback, Clinton L.
Williams, Allan

Spokane
Soltau, David L.

Tacoma
Seward, Raymond S.

Walla Walla
Parsons, L. A.

WEST VIRGINIA—8

Bethany
Cook, Rolla V.

Charleston
Kleinschmidt, Robert V.

Huntington
Welch, George B.

Montgomery
Raub, Leo G.

Morgantown
Colwell, Robert C.
Forman, Alexander H.
Molby, Fred A.
Myers, I. O.

WISCONSIN—59

Appleton
Davis, Myrl N.
Millis, John S.

Green Bay
Harker, William J.

Madison
Bell, Earl R.
Bennett, Edward
Dillon, J. H.
Germond, Hallett H.
Goble, A. T.
Havens, Glenn G.
Havighurst, Robert J.
Haworth, L. J.
Ingersoll, Leonard R.
Johnson, N. Harold
Jordahl, Olaf M.
Knapp, E. J.
Lillie, H. L.
Mack, Julian E.
Marick, Louis
Mendenhall, C. E.
Miller, E. R.
Morris, Lloyd W.
Morris, R. F.
Nelson, Howard E.
Osterberg, Harold
Peirce, Sheldon J.
Roebuck, John R.
Rollefson, Ragner
Rouse, Alton
Slichter, L. B.
Sproull, Wayne T.
Stebbins, Joel
Stehn, John R.
Steve, William F.
Vacquier, Victor
Van Vleck, J. H.
Wahlin, Hugo B.
Weaver, Warren
Westerfield, Everett S.
Whitelaw, Neill
Whitford, Albert E.
Williams, J. W.
Winans, John G.
Winch, Ralph P.

Milwaukee
Anderson, Elda E.
Douglas, J. F. H.
Earls, Lester T.
Elo, Arpad E.
Friauf, James B.
Goodale, Jeanette A.
Martin, Miles J.
Patterson, Chalmer N.
Poetker, Albert H.
Skinner, Charles H.
Stoekle, E. R.

Oshkosh
Duncan, James F.
Whitney, John D.

Ripon
Barber, W. H.

River Falls
Jacobson, J. P.

Williams Bay
Moffitt, G. W.

WYOMING—3

Laramie
Bellamy, B. C.
Hammond, Philo F.

Lookout
Fukushima, Iwao

CANADA—51

Ainslee, D. S.
Alty, Thomas
Andres, Paul G.
Archibald, D. C.
Barnes, H. T.
Batho, Harold F.
Boyle, R. W.
Bronson, Howard L.
Cartmel, William B.

Canada con't
Chant, Clarence A.
Dawes, H. Franklin
Davidson, James G.
Day, Frank H.
Dobson, W. Percy
Dearle, Raymond C.
Durnford, A. M. I. A. W.
Eve, A. S.
Foster, J. S.
Foster, Willena
Froman, Darol K.
Gilchrist, L.
Gingrich, Newell S.
Gray, J. A.
Hamer, Richard
Harrington, E. L.
Hebb, T. C.
Hennings, A. E.
Hepburn, Dugald
Ireton, Henry J. C.
Johnstone, J. H. L.
Keys, David A.
King, Louis V.
Lehrman, S.
Maass, Otto
MacGregor, Donald G.
Mackenzie, A. Stanley
McClung, R. K.
McLay, A. B.
McLennan, J. C.
McTaggart, Henry A.
Miller, A. H.
Nicholson, P. J.
Robertson, John K.
Robertson, Norman S.
Rose, D. C.
Ruedy, Richard
Shaw, A. Norman
Shrum, G. M.
Smith, H. Grayson
Vennes, Harold J.
Young, J. F. T.

AFRICA—2

Sordahl, Louis O.
van der Bijl, H. J.

AUSTRALIA—2

Ross, A. D.
Thompson, Andrew

AUSTRIA—2

Goyer, Marie
Hess, Victor

CHINA—12

Chang, Z. T.
Chao, S. H.
Chu, Chih T.
Fang, K. C.
Hsieh, Yu Ming
Hsu, Jen Hsien
Hu, Kang-Fuh
Knipp, A. R.
Kwei, C. T.
Lee, John Y.
Supao, Ting
Wang, Shou Chin

DENMARK—1

Bohr, Niels

FRANCE—3

de Broglie, Le Duc
du Nouy, Pierre Lecomte
Tisdale, W. E.

GERMANY—12

Bungartz, Everhard
Franck, J.
Krefft, H. E.
Lang, Robert J.
Lewis, Lester C.
Margenau, Henry
Meyer, F. W.
Planck, Max
Schroedinger, Erwin
Sponer, Herta
Weyl, H.
Zanstra, H.

GREAT BRITAIN—31

Allibone, Thomas E.
Appleton, Edward V.
Barnes, Colin
Blackett, P. M. S.
Bragg, Sir William
Brook, George B.
Carroll, John A.
Cockroft, J. D.
Cofman, Victor
Curtis, W. E.
Darwin, Charles G.
de Bruyne, N. A.
Dymond, E. Gilbert
Ellis, C. Drummond
Emeleus, K. G.
Foster, Charles
Frazer, J. H.
Hackett, Felix E.
Johnson, Raynor C.
Jones, T. J.
King, R. W.
Lowater, Frances
Morgans, W. R.
Richardson, O. W.
Roberts, J. K.
Robertson, John M.
Rutherford, Sir Ernest
Skinner, Herbert W. B.
Watson, William H.
Williams, W. Ewart
Worsnop, B. L.

HAWAII—3

Eller, Willard H.
Kirkpatrick, Paul
Miyake, Iwao

HOLLAND—5

de Graff, A.
Kramer, H. A.
Kronig, R. de Laer
Prins, J. Alingh
Uyterhoeven, W.

INDIA—2

Benade, J. M.
Raman, C. V.

ITALY—2

La Rosa, M.
Sagui, Cornelio L.

JAPAN—30

Asao, S.
Igari, Mituyosi
Imanishi, Sunao
Imaoka, Yoshio
Isshiki, T.
Kakiuchi, S.
Kakinuma, Usaku
Kiuti, Masazo
Koga, Isaac
Kujirai, T.
Kuno, Takuji
Matsui, Kuniyasu
Matukawa, Kyuzi
Magaoka, Hantaro
Nakamura, Seiji
Nishi, T.
Nishikawa, Shoji
Nishina, Yoshio
Numakura, S.
Ono, Suminosuke
Shinomiya, Toyoji
So, M.
Suga, Yosuke
Suzuki, H.
Takamine, T.
Tanaka, Masamachi
Tanaka, Tutomu
Yamauti, Ziro
Yasaki, Tameiti
Yoshida, Usaburo

NORWAY—1

Bjerknes, V.

PANAMA CANAL ZONE—1

Searles, P. J.

PHILIPPINE ISLANDS—2

del Rosario, C.
Deppermann, C. E.

POLAND—2

Loria, Stanislau
Peczalski, T.

RUSSIA—2

De Kolossowsky, Nicholas A.
Joffe, Abraham

SOUTH AMERICA—1

Ratti, Aldo A.

SWEDEN—2

Benedicks, Carl A. F.
Siegbahn, Manne

SWITZERLAND—7

Hagenbach, August
Mott-Smith, Harold M.
Schein, Marcel
Stucklen, Hildegard
Summers, R. D.
Wehrli, Max
Weigle, J. J.

SYRIA—2

Bacon, Arthur A.
Brown, J. A.